



Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. this collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Complete if Known	
				Application Number	10/784,295
				Filing Date	February 24, 2004
				First Named Inventor	SHAALTIEL Yoseph
				Group Art Unit	1797
				Examiner Name	BEISNER, WILLIAM H
Sheet	2	Of	3	Attorney Docket Number	27557
OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS					
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.			T ²
	14	Examination Report Dated 12 August 2005 From the Government of India, Patent Office Re.: Application No. 631/del/2001.			
	15	Examination Report Dated 12 June 2007 From the Government of India, Patent Office Re.: Application No. 3150/CHENP/2005.			
	16	Office Letter Dated 14 January 2008 From the Government of India, Patent Office Re.: Application No. 3150/CHENP/2005.			
	17	Official Action Dated 06 June 2008 From the US Patent and Trademark Office Re.: Application No. 11/790,991.			
	18	Official Action Dated 08 January 2008 From the US Patent and Trademark Office Re.: Application No. 10/784,295.			
	19	Official Action Dated 26 September 2008 From the US Patent and Trademark Office Re.: Application No. 11/790,991.			
	20	Official Action Dated 29 January 2008 From the US Patent and Trademark Office Re.: Application No. 11/790,991.			
	21	Official Action Dated 31 October 2008 From Patent Office of the Russian Federation Re.: 2007147328/15(051871).			
	22	Requisition by the Examiner Dated 03 August 2006 From the Canadian Intellectual Property Office Re.: Application No. 2,266,851.			
	23	Translation of the Office Action Dated 31 August 2007 From the Patent Office of the People's Republic of China Re.: Application No. 200480017916.2.			
	24	Translation of the Official Action Dated 16 January 2007 From the Japanese Patent Office Re.: Application No. 515465/98.			
	25	Communication Pursuant to Article 94(3) EPC Dated 12 February 2009 From the European Patent Office Re.: Application No. 04713966.2.			
	26	Examiner's Report Dated 01 December 2008 From the Australian Government, IP Australia Re.: Application No. 2004234635.			
	27	Notification of the Results of the Examination Dated 14 October 2008 From the Patent Office of the Russian Federation Re.: Application No 2005136874 and Its Translation Into English.			
	28	Office Action Dated 06 February 2009 From the State Intellectual Property Office of the People's Republic of China Re.: Application No. 200480017916.2.			
	29	Office Action Dated 10 December 2008 From the Israeli Patent Office Re.: Application No. 171561 and Its Translation Into English.			
	30	Search Report Dated 23 December 2008 From the Intellectual Property Office of Singapore Issued by the Australian Patent Office Re.: Application No. SG 200800359-2.			
Examiner Signature					Date Considered

* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional).

² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3).

³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3).

⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.

⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible.

⁶ Applicant is to place a check mark here if English language translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Complete if Known	
				Application Number	10/784,295
				Filing Date	February 24, 2004
				First Named Inventor	SHAALTIEL Yoseph
				Group Art Unit	1797
				Examiner Name	BEISNER, WILLIAM H
Sheet	3	Of	3	Attorney Docket Number	27557
OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS					
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.			T ²
	31	Written Opinion Dated 23 December 2008 From the Intellectual Property Office of Singapore Issued by the Australian Patent Office Re.: Application No. SG 200800359-2.			
	32	Berg-Fussman et al. "Human Acid β -Glucosidase. N-Glycosylation Site Occupancy and the Effect of Glycosylation on Enzymatic Activity", The Journal of Biological Chemistry, 268(20): 14861-14866, 15 July 1993.			
	33	Branden et al. "Prediction, Engineering, and Design of Protein Structures", Introduction to Protein Structure, Garland Publishing, P.247, 1991.			
	34	Chica et al. "Semi-Rational Approaches to Engineering Enzyme Activity: Combining the Benefits of Directed Evolution and Rational Design", Current Opinion in Biotechnology, 16: 378-384, 2005.			
	35	Crooy et al. "Recombinant Glucocerebrosidase and Lyme Disease Vaccine Made by Genetic Engineering (No. 11 in A Series of Articles to Promote A Better Understanding of the Use of Genetic Engineering)", Journal of Biotechnology, 76: 259-263, 2000.			
	36	ExPASy "NiceZyme View of Enzyme: EC 3.2.1.45", UniProtKB/Swiss-Prot, ExPASy.			
	37	Giddings et al. "Transgenic Plants as Factories for Biopharmaceuticals", Nature Biotechnology, 18: 1151-1155, November 2000.			
	38	Gomord et al. "Posttranslational Modification of Therapeutic Proteins in Plants", Current Opinion in Plant Biology, 7: 171-181, 2004.			
	39	Lerouge et al. "N-Glycoprotein Biosynthesis in Plants: Recent Developments and Future Trends", Plant Molecular Biology, 38: 31-48, 1998.			
	40	Schähs et al. "Production of A Monoclonal Antibody in Plants With A Humanized N-Glycosylation Pattern", Plant Biotechnology Journal, 5(5): 657-663, September 2007. Abstract.			
	41	Seffernick et al. "Melamine Deaminase and Atrazine Chlorohydrolase: 98 Percent Identical But Functionally Different", Journal of Bacteriology, 183(8): 2405-2410, April 2001.			
	42	Sorge et al. Alignments, Sequence List, 10/554387 SEQ ID No: 8.			
	43	Tsuji et al. "Nucleotide Sequence of cDNA Containing the Complete Cosing Sequence for Human Lysosomal Glucocerebrosidase", The Journal of Biological Chemistry, 261(1): 50-53, 5 January 1986.			
	44	Van Patten et al. "Effect of Mannose Chain length on Targeting of Glucocerebrosidase for Enzyme Replacement Therapy of Gaucher Disease", Glycobiology, 17(5): 467-478, 2007.			
	45	Witkowski et al. "Conversion of A β -Ketoacyl Synthase to A Malonyl Decarboxylase by Replacement of the Active-site Cysteine With Glutamine", Biochemistry, 38(36): 11643-11650, 1999.			
Examiner Signature		Date Considered			

* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional).

² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3).

³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3).

⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.

⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible.